



U.S. Department of Agriculture  
Washington Agricultural Statistics Service  
P.O. Box 609, Olympia, WA 98507

# WASHINGTON'S WHEAT ESTIMATING PROGRAM

June 2005

**General:** The National Agricultural Statistics Service publishes estimates for winter and spring wheat spanning the crop year. This document shows some of the estimates for the years 2000-2004 and the dates for release of the 2005 estimates. Included are data for:

- ... the weekly percent of spring wheat and winter wheat and winter wheat seeded, emerged, headed and harvested,
- ... winter and spring wheat acreage, yield and production by county, and
- ... winter and spring wheat acreage, production, price and value.

Below is a discussion of how the estimates are prepared.

**Surveys:** The survey data used to estimate wheat comes from a series of probability and non-probability surveys conducted throughout the year. A general description of a probability survey is one for which every farming operation has a known probability of being selected and when selected, represents a known number of similar operations throughout the state. Probability surveys produce not only indications for a particular category, but an estimated sampling error associated with each of those indications. Survey information is gathered voluntarily from wheat growers across the State of Washington, except for the price data, which are collected from grain elevators. All individual data collected through any of these surveys are held in the strictest confidence and are used only in combination with other reports to generate state and county level estimates.

Acreage estimates for winter wheat start in December and are

updated in March along with the first indication of spring wheat acreage. Acreage is then reviewed using survey data collected in June, with the end-of-year estimates being published in early October.

Yield per acre estimates are based on both data reported by producers, as well as data collected from field observations. Monthly probability yield surveys, conducted from May through August, collect information from producers about their expected yields. Another monthly probability survey, Wheat Objective Yield, collects field observations for winter wheat. Small plots are laid out in about 160 randomly selected fields across the state. Counts are made and clippings are taken for analysis up until harvest. Gross yield per acre and post harvest loss are combined to determine an indication of net yield per acre.

Winter and spring wheat crop progress and conditions are collected and published on a weekly basis throughout the year along with selected weather data. Stocks on hand are estimated four times a year for all wheat. Prices received by farmers are estimated monthly and are then used to derive a market-year average price. County level estimates for acreage, yield, and production are prepared after the annual summary is released in January. Data for the county estimates come from a combination of all the above-mentioned survey data, as well as a very large end-of-the-year acreage and production survey. County Extension Agents and Farm Service Administrators also provide supplemental data.

## Percent Seeded and Emerged, Winter Wheat, Washington, 2000-2004 1/

Activity and Year	SEPTEMBER					OCTOBER				NOVEMBER		
	1	8	15	22	29	6	13	20	27	3	10	17
<b>Seeded</b>												
2000	15	32	40	53	76	91	98	100	-	-	-	-
2001	18	26	54	61	68	80	91	97	99	100	100	100
2002	-	39	65	67	80	90	92	97	99	99	100	100
2003	14	31	42	52	67	75	87	96	99	100	-	-
2004	3	21	28	48	55	73	86	95	98	99	100	-
<b>2000-2004 Average</b>	<b>6</b>	<b>23</b>	<b>43</b>	<b>55</b>	<b>65</b>	<b>78</b>	<b>88</b>	<b>95</b>	<b>98</b>	<b>99</b>	<b>100</b>	<b>100</b>
<b>Emerged</b>												
2000	1	11	19	32	52	68	84	94	98	99	100	-
2001	4	18	33	37	51	64	75	85	90	94	97	99
2002	-	-	-	43	54	65	72	82	90	91	93	95
2003	-	-	-	17	33	39	61	78	84	89	95	97
2004	-	-	13	24	33	48	66	83	85	92	93	95
<b>2000-2004 Average</b>	<b>3</b>	<b>13</b>	<b>11</b>	<b>26</b>	<b>39</b>	<b>54</b>	<b>66</b>	<b>80</b>	<b>87</b>	<b>91</b>	<b>94</b>	<b>96</b>

1/ Available at [www.usda.gov/nass](http://www.usda.gov/nass) every week between April and November, on Tuesdays at 12:00pm ET.

## Winter Wheat: Acreage, Yield, & Production, By Counties, Washington, 2004

County and District	Total Planted	Harvested for Grain								
		Acres			Yield Per Acre			Production		
		Irrigated	Non Irrigated	Total	Irrigated	Non Irrigated	Total	Irrigated	Non Irrigated	Total
<b>COUNTY</b>		<b>Acres</b>			<b>Bushels</b>			<b>Bushels</b>		
Adams	260,500	48,400	201,600	250,000	86.0	47.9	55.3	4,164,000	9,657,000	13,821,000
Asotin	23,000	-	22,000	22,000	-	47.7	47.7	-	1,049,000	1,049,000
Benton	90,300	16,900	69,900	86,800	100.7	35.5	48.2	1,701,000	2,480,000	4,181,000
Columbia	69,000	1/	1/	68,000	1/	1/	81.3	1/	1/	5,530,000
Douglas	151,500	1/	1/	148,800	1/	1/	48.8	1/	1/	7,268,000
Franklin	66,500	1/	1/	65,000	1/	1/	47.6	1/	1/	3,094,000
Garfield	54,000	1/	1/	53,000	1/	1/	72.4	1/	1/	3,838,000
Grant	135,000	38,300	94,700	133,000	102.6	49.0	64.4	3,930,000	4,637,000	8,567,000
Klickitat	25,000	1/	1/	24,500	1/	1/	42.2	1/	1/	1,034,000
Lincoln	280,500	19,200	256,800	276,000	83.5	60.3	61.9	1,603,000	15,487,000	17,090,000
Okanogan	7,300	-	1/	7,200	-	1/	52.4	-	1/	377,000
Spokane	97,300	1/	1/	95,600	1/	1/	78.4	1/	1/	7,494,000
Stevens	4,500	-	1/	4,400	-	1/	59.8	-	1/	263,000
Walla Walla	182,000	12,000	156,000	168,000	106.3	79.9	81.8	1,276,000	12,472,000	13,748,000
Whitman	330,000	1/	1/	325,200	1/	1/	86.7	1/	1/	28,196,000
Yakima	16,400	8,100	7,600	15,700	90.0	38.6	65.1	729,000	293,000	1,022,000
Other Counties	7,200	17,100	781,400	6,800	91.1	71.9	99.7	1,558,000	56,214,000	678,000
<b>DISTRICTS</b>										
West	6,000	-	5,600	5,600	-	105.9	105.9	-	593,000	593,000
Central	140,000	27,800	107,400	135,200	96.1	37.4	49.5	2,671,000	4,016,000	6,687,000
Northeast	102,000	1,500	98,700	100,200	101.3	77.2	77.5	152,000	7,617,000	7,769,000
East Central	894,000	118,400	754,400	872,800	91.5	51.7	57.1	10,837,000	39,003,000	49,840,000
Southeast	658,000	12,300	623,900	636,200	105.8	81.8	82.3	1,301,000	51,060,000	52,361,000
<b>STATE TOTAL</b>	<b>1,800,000</b>	<b>160,000</b>	<b>1,590,000</b>	<b>1,750,000</b>	<b>93.5</b>	<b>64.3</b>	<b>67.0</b>	<b>14,961,000</b>	<b>102,289,000</b>	<b>117,250,000</b>

- Not applicable.

1/ Included in "Other Counties" category. "Other Counties" is a combination of counties that could not be published, plus the irrigated and non-irrigated practice data that could not be published at the county level.

## Spring Wheat: Acreage, Yield, & Production, By Counties, Washington, 2004

County and District	Total Planted	Harvested for Grain								
		Acres			Yield Per Acre			Production		
		Irrigated	Non Irrigated	Total	Irrigated	Non Irrigated	Total	Irrigated	Non Irrigated	Total
COUNTY		Acres			Bushels			Bushels		
Adams	31,900	11,000	20,700	31,700	80.0	36.2	51.4	880,000	750,000	1,630,000
Asotin	2,200	-	2,200	2,200	-	29.1	29.1	-	64,000	64,000
Benton	34,600	1,700	32,500	34,200	89.4	33.8	36.6	152,000	1,100,000	1,252,000
Columbia	19,700	1/	1/	19,600	1/	1/	44.7	1/	1/	876,000
Douglas	15,500	1/	1/	15,400	1/	1/	20.7	1/	1/	319,000
Franklin	12,000	1/	1/	12,000	1/	1/	95.8	1/	1/	1,150,000
Garfield	21,400	-	1/	21,300	-	1/	37.9	-	1/	808,000
Grant	44,000	37,200	6,200	43,400	100.0	63.7	94.8	3,720,000	395,000	4,115,000
Klickitat	21,700	1/	1/	21,100	1/	1/	20.6	1/	1/	435,000
Lincoln	104,600	7,600	95,900	103,500	70.7	30.2	33.2	537,000	2,900,000	3,437,000
Okanogan	4,100	1,400	1/	4,100	64.3	1/	34.9	90,000	1/	143,000
Spokane	39,900	1/	1/	39,000	1/	1/	45.4	1/	1/	1,771,000
Stevens	2,100	-	2,000	2,000	-	35.0	35.0	-	70,000	70,000
Walla Walla	33,900	12,900	20,900	33,800	81.4	54.5	64.8	1,050,000	1,140,000	2,190,000
Whitman	132,300	1/	1/	131,600	1/	1/	55.3	1/	1/	7,280,000
Yakima	7,200	5,300	1,900	7,200	75.5	39.5	66.0	400,000	75,000	475,000
Other Counties	2,900	14,900	250,700	2,900	89.6	46.1	81.0	1,370,000	11,557,000	235,000
DISTRICTS										
West	500	-	500	500	-	80.0	80.0	-	40,000	40,000
Central	70,000	11,000	58,000	69,000	77.0	28.5	36.2	847,000	1,653,000	2,500,000
Northeast	42,000	500	40,500	41,000	64.0	44.7	44.9	32,000	1,809,000	1,841,000
East Central	208,000	66,500	139,500	206,000	93.0	32.0	51.7	6,186,000	4,465,000	10,651,000
Southeast	209,500	14,000	194,500	208,500	81.0	51.8	53.8	1,134,000	10,084,000	11,218,000
<b>STATE TOTAL</b>	<b>530,000</b>	<b>92,000</b>	<b>433,000</b>	<b>525,000</b>	<b>89.1</b>	<b>41.7</b>	<b>50.0</b>	<b>8,199,000</b>	<b>18,051,000</b>	<b>26,250,000</b>

- Not applicable.

1/ Included in "Other Counties" category. "Other Counties" is a combination of counties that could not be published, plus the irrigated and non-irrigated practice data that could not be published at the county level.

### Percent Seeded and Emerged, Spring Wheat, Washington, 2000-2004

Activity and Year	APRIL				MAY			
	4	11	18	25	2	9	16	23
<b>Seeded</b>								
2000	47	67	84	91	97	100	-	-
2001	36	50	64	78	89	98	100	100
2002	39	58	70	80	90	94	97	100
2003	36	52	66	83	94	97	100	-
2004	55	80	95	98	99	100	-	-
<b>2000-2004 Average</b>	<b>31</b>	<b>51</b>	<b>65</b>	<b>78</b>	<b>90</b>	<b>96</b>	<b>100</b>	<b>100</b>
<b>Emerged</b>								
2000	13	31	48	63	81	89	96	-
2001	13	17	29	47	65	81	91	98
2002	-	-	-	50	65	71	91	95
2003	7	13	24	49	66	80	88	95
2004	20	50	69	79	86	91	96	-
<b>2000-2004 Average</b>	<b>7</b>	<b>15</b>	<b>28</b>	<b>47</b>	<b>63</b>	<b>77</b>	<b>88</b>	<b>95</b>

### Percent Headed, Winter and Spring Wheat, Washington, 2000-2004

Activity and Year	MAY					JUNE				JULY	
	2	9	16	23	30	6	13	20	27	4	11
<b>Headed</b>	<b>WINTER WHEAT</b>										
2000	3	7	20	45	60	86	92	98	100	-	-
2001	3	6	14	31	41	71	90	97	100	-	-
2002	3	5	6	25	28	50	76	94	100	-	-
<b>2003</b>	<b>2</b>	<b>4</b>	<b>10</b>	<b>17</b>	<b>32</b>	<b>58</b>	<b>80</b>	<b>94</b>	<b>99</b>	<b>-</b>	<b>-</b>
<b>2004</b>	<b>5</b>	<b>7</b>	<b>10</b>	<b>27</b>	<b>58</b>	<b>69</b>	<b>91</b>	<b>92</b>	<b>100</b>	<b>-</b>	<b>-</b>
<b>2000-2004 Average</b>	<b>1</b>	<b>3</b>	<b>8</b>	<b>18</b>	<b>32</b>	<b>55</b>	<b>79</b>	<b>93</b>	<b>99</b>	<b>-</b>	<b>-</b>
<b>Headed</b>	<b>SPRING WHEAT</b>										
2000	-	-	-	2	15	40	69	72	82	92	100
2001	-	-	-	2	12	29	52	72	80	92	99
2002	-	-	-	-	-	-	43	55	82	98	100
2003	-	-	-	1	9	13	28	52	81	96	100
2004	-	-	-	4	13	29	50	60	89	99	99
<b>2000-2004 Average</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>2</b>	<b>6</b>	<b>17</b>	<b>39</b>	<b>59</b>	<b>76</b>	<b>89</b>	<b>98</b>

### Percent Harvested, Winter and Spring Wheat, Washington, 2000-2004

Activity and Year	JULY			AUGUST					SEPTEMBER		
	11	18	25	1	8	15	22	29	5	12	19
<b>Harvested</b>	<b>WINTER WHEAT</b>										
2000	7	16	35	56	79	92	98	100	-	-	-
2001	4	6	17	41	55	79	96	98	99	100	-
2002	2	8	16	39	60	70	93	98	99	100	-
2003	2	8	16	38	61	79	91	98	100	-	-
2004	3	6	15	35	55	76	87	91	98	99	-
<b>2000-2004 Average</b>	<b>2</b>	<b>5</b>	<b>13</b>	<b>30</b>	<b>51</b>	<b>68</b>	<b>84</b>	<b>94</b>	<b>98</b>	<b>100</b>	<b>-</b>
<b>Harvested</b>	<b>SPRING WHEAT</b>										
2000	-	3	12	29	52	75	91	95	99	100	-
2001	1	4	13	20	29	55	68	90	96	100	-
2002	-	-	-	15	30	55	75	94	99	100	-
2003	2	3	6	17	37	65	85	96	99	100	-
2004	-	-	3	24	42	64	81	89	98	99	99
<b>2000-2004 Average</b>	<b>-</b>	<b>1</b>	<b>4</b>	<b>11</b>	<b>25</b>	<b>44</b>	<b>65</b>	<b>81</b>	<b>94</b>	<b>98</b>	<b>100</b>

### Wheat: Acreage, Production, Price, and Value, Washington, 2000-2004

Crop And Year	Acreage		Yield Per Acre	Production	Avg. Price Per Unit	Value of Production	Value Per Harv. Acre
	Planted	Harvested					
<b>Wheat, Winter</b>	<b>1,000 Acres</b>	<b>Bushels</b>	<b>1,000 Bushels</b>	<b>\$ Per Bushel</b>	<b>\$1,000</b>	<b>\$ Per Acre</b>	
2000	1,850	1,800	73	131,400	2.62	344,268	191
2001	1,850	1,750	61	106,750	3.19	340,533	195
2002	1,850	1,800	58	104,400	3.78	394,632	219
2003	1,850	1,800	65	117,000	3.70	432,900	241
<b>2004</b>	<b>1,800</b>	<b>1,750</b>	<b>67</b>	<b>117,250</b>	<b>3.55</b>	<b>416,238</b>	<b>238</b>
<b>Wheat, Spring</b>							
2000	625	620	54	33,480	2.96	99,101	160
2001	610	600	41	24,600	3.38	83,148	139
2002	600	590	43	25,370	4.03	102,241	173
2003	550	545	41	22,345	3.95	88,263	162
<b>2004</b>	<b>530</b>	<b>525</b>	<b>50</b>	<b>26,250</b>	<b>3.90</b>	<b>102,375</b>	<b>195</b>
<b>Wheat, All</b>							
2000	2,475	2,420	68.1	164,880	2.70	443,369	183
2001	2,460	2,350	55.9	131,350	3.23	423,681	180
2002	2,450	2,390	54.3	129,770	3.83	496,873	211
2003	2,400	2,345	59.4	139,345	3.75	521,163	222
<b>2004</b>	<b>2,330</b>	<b>2,275</b>	<b>63.1</b>	<b>143,500</b>	<b>3.65</b>	<b>518,613</b>	<b>228</b>

## Wheat Estimating Program for Washington, 2005 Crop

DATE	REPORT	WINTER WHEAT			SPRING WHEAT		
		Planted Acreage	Harvested Acreage	Yield/ Production	Planted Acreage	Harvested Acreage	Yield/ Production
1/12/05	Winter Wheat Seedings	X					
3/31/05	Prospective Plantings	X			X		
5/12/05	Crop Production	X	X	X			
6/10/05	Crop Production	X	X	X			
6/30/05	Acreage Report	X	X		X		
7/12/05	Wheat Variety Report	1/			1/		
7/12/05	Crop Production	X	X	X	X	X	X
8/12/05	Crop Production	X	X	X	X	X	X
9/30/05	Small Grains Annual Report	X	X	X	X	X	X
1/06	Annual Summary	X	X	X	X	X	X
2/06	County Estimates	2/	2/	2/	2/	2/	2/

*Estimate not made for shaded areas. Unless noted, all estimates are at the state level.*

*1/ Estimates made for Agricultural Statistics Districts, by variety, preliminary planted acreage by county.*

*2/ Estimates made for Counties.*

<u>ALL WHEAT</u>	<u>REFERENCE DATE</u>	<u>DATE RELEASED</u>	<u>REPORT</u>	<u>LEVEL</u>
Stocks	December 1	January 12, 2005	Grain Stocks	State
	March 1	March 31, 2005	Grain Stocks	State
	June 1	June 30, 2005	Grain Stocks	State
	September 1	September 30, 2005	Grain Stocks	State

Production by Class - U.S. level only corresponding to Crop Production: State Data in Annual Summary

Prices	Mid-month*	Last Work Day of Month	Agricultural Prices	State/National
	Full-month**			
	Marketing Year Average	July 29, 2005	Agricultural Prices	State/National

\* Mid-month prices should reflect the average price received by farmers during the 14th-17th of the current month.

\*\* Full month prices should reflect the average price received by farmers for the entire previous month for all methods of sales.